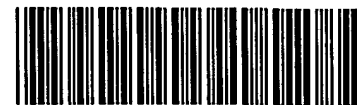


## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/551,643  
Source: TFW0  
Date Processed by STIC: 08/25/2006

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IFWO

## RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:07

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

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3 <110> APPLICANT: MONTELEONE, GIOVANNI
5 <120> TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES (ODN) AGAINST SMAD7 AND USES
6   IN MEDICAL FIELD THEREOF
8 <130> FILE REFERENCE: 2520-1065
10 <140> CURRENT APPLICATION NUMBER: 10/551,643
11 <141> CURRENT FILING DATE: 2005-09-29
13 <150> PRIOR APPLICATION NUMBER: PCT/IT04/000117
14 <151> PRIOR FILING DATE: 2004-03-08
16 <150> PRIOR APPLICATION NUMBER: IT RM2003 A 000149
17 <151> PRIOR FILING DATE: 2003-04-02
19 <160> NUMBER OF SEQ ID NOS: 15
21 <170> SOFTWARE: PatentIn Ver. 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 21
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
30   oligonucleotide
32 <400> SEQUENCE: 1
33 gtcgccccctt ctccccgcag c                               21
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 20
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
43   oligonucleotide
45 <220> FEATURE:
46 <221> NAME/KEY: modified_base
47 <222> LOCATION: (3)
48 <223> OTHER INFORMATION: cytosine, 5-methylcytosine, or 2'-O-methylcytosine
50 <220> FEATURE:
51 <221> NAME/KEY: modified_base
52 <222> LOCATION: (4)
53 <223> OTHER INFORMATION: guanine, 5-methylguanine, or 2'-O-methylguanine
55 <220> FEATURE:
56 <221> NAME/KEY: modified_base
57 <222> LOCATION: (16)
58 <223> OTHER INFORMATION: cytosine, 5-methylcytosine, or 2'-O-methylcytosine
60 <220> FEATURE:
61 <221> NAME/KEY: modified_base
62 <222> LOCATION: (17)

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## RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:07

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

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63 <223> OTHER INFORMATION: guanine, 5-methylguanine, or 2'-O-methylguanine
65 <400> SEQUENCE: 2
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69 <210> SEQ ID NO: 3
70 <211> LENGTH: 20
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
76     oligonucleotide
78 <220> FEATURE:
79 <221> NAME/KEY: modified_base
80 <222> LOCATION: (3)
81 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
83 <220> FEATURE:
84 <221> NAME/KEY: modified_base
85 <222> LOCATION: (16)
86 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
88 <400> SEQUENCE: 3
W--> 89 gtngccccctt ctcccnngcag 20
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 20
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
99     oligonucleotide
101 <220> FEATURE:
102 <221> NAME/KEY: modified_base
103 <222> LOCATION: (1)
104 <223> OTHER INFORMATION: 2'-deoxyguanosine methylphosphonate
106 <220> FEATURE:
107 <221> NAME/KEY: modified_base
108 <222> LOCATION: (3)
109 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
111 <220> FEATURE:
112 <221> NAME/KEY: modified_base
113 <222> LOCATION: (16)
114 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
116 <220> FEATURE:
117 <221> NAME/KEY: modified_base
118 <222> LOCATION: (20)
119 <223> OTHER INFORMATION: 2'-deoxyguanosine methylphosphonate
121 <400> SEQUENCE: 4
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125 <210> SEQ ID NO: 5
126 <211> LENGTH: 18
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:07

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

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130 <220> FEATURE:
131 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
132     oligonucleotide
134 <400> SEQUENCE: 5
135 gtttggtcct gaacatgc                                     18
138 <210> SEQ ID NO: 6
139 <211> LENGTH: 16
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
145     oligonucleotide
147 <400> SEQUENCE: 6
148 gtttggtcct gaacat                                     16
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 17
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
158     oligonucleotide
160 <400> SEQUENCE: 7
161 gtttggtcct gaacatg                                     17
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 18
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
171     oligonucleotide
173 <400> SEQUENCE: 8
174 agcaccgagt gcgtgagc                                     18
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 18
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
184     oligonucleotide
186 <220> FEATURE:
187 <221> NAME/KEY: modified_base
188 <222> LOCATION: (1)
189 <223> OTHER INFORMATION: 2'-deoxyadenosine methylphosphonate
191 <220> FEATURE:
192 <221> NAME/KEY: modified_base
193 <222> LOCATION: (6)
194 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate
196 <220> FEATURE:
197 <221> NAME/KEY: modified_base

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## RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:07

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

```

198 <222> LOCATION: (12)
199 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate
201 <220> FEATURE:
202 <221> NAME/KEY: modified_base
203 <222> LOCATION: (18)
204 <223> OTHER INFORMATION: 2'-deoxycytosine methylphosphonate
206 <400> SEQUENCE: 9
W--> 207 ngcacngagt gngtgagn 18
210 <210> SEQ ID NO: 10
211 <211> LENGTH: 18
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
217     oligonucleotide
219 <400> SEQUENCE: 10
220 cgaacatgac ctccgcac 18
223 <210> SEQ ID NO: 11
224 <211> LENGTH: 18
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
230     oligonucleotide
232 <220> FEATURE:
233 <221> NAME/KEY: modified_base
234 <222> LOCATION: (1)
235 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate
237 <220> FEATURE:
238 <221> NAME/KEY: modified_base
239 <222> LOCATION: (14)
240 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate
242 <400> SEQUENCE: 11
W--> 243 ngaacatgac ctcngcac 18
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
253     oligonucleotide
255 <220> FEATURE:
256 <221> NAME/KEY: modified_base
257 <222> LOCATION: (3)
258 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate
260 <220> FEATURE:
261 <221> NAME/KEY: modified_base
262 <222> LOCATION: (16)
263 <223> OTHER INFORMATION: 5-methyl 2' deoxycytidine 5' monophosphate

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## RAW SEQUENCE LISTING

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:07

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

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265 <400> SEQUENCE: 12
W--> 266 gtngccctt ctccngcag 20
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 17
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
276     oligonucleotide
278 <400> SEQUENCE: 13
279 gatcgtttg tctgaa 17
282 <210> SEQ ID NO: 14
283 <211> LENGTH: 17
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
289     oligonucleotide
291 <400> SEQUENCE: 14
292 atcgtttggt cctgaac 17
295 <210> SEQ ID NO: 15
296 <211> LENGTH: 21
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
302     oligonucleotide
304 <220> FEATURE:
305 <221> NAME/KEY: modified_base
306 <222> LOCATION: (1)
307 <223> OTHER INFORMATION: 2'-deoxyguanosine methylphosphonate
309 <220> FEATURE:
310 <221> NAME/KEY: modified_base
311 <222> LOCATION: (3)
312 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
314 <220> FEATURE:
315 <221> NAME/KEY: modified_base
316 <222> LOCATION: (16)
317 <223> OTHER INFORMATION: 5-methyl 2'-deoxycytidine 5'-monophosphate
319 <220> FEATURE:
320 <221> NAME/KEY: modified_base
321 <222> LOCATION: (20)
322 <223> OTHER INFORMATION: 2'-deoxyguanosine methylphosphonate
324 <400> SEQUENCE: 15
W--> 325 ntngccctt ctccngcan c 21

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/551,643

DATE: 08/25/2006  
TIME: 12:22:08

Input Set : A:\25201065.APP  
Output Set: N:\CRF4\08252006\J551643.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 3,4,16,17

Seq#:3; N Pos. 3,16

Seq#:4; N Pos. 1,3,16,20

Seq#:9; N Pos. 1,6,12,18

Seq#:11; N Pos. 1,14

Seq#:12; N Pos. 3,16

Seq#:15; N Pos. 1,3,16,20

**VERIFICATION SUMMARY**

DATE: 08/25/2006

PATENT APPLICATION: US/10/551,643

TIME: 12:22:08

Input Set : A:\25201065.APP

Output Set: N:\CRF4\08252006\J551643.raw

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0